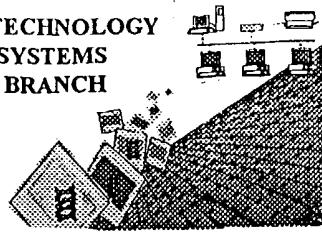


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101646,390
Source: TFWD
Date Processed by STIC: 8/20/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/646,390

DATE: 08/20/2004
TIME: 11:05:57

Input Set : A:\PTO.LM.txt
Output Set: N:\CRF4\08202004\J646390.raw

3 <110> APPLICANT: SAITOU, Mitinori
4 SURANI, Azim
6 <120> TITLE OF INVENTION: Genes
8 <130> FILE REFERENCE: 674558-2002.1
10 <140> CURRENT APPLICATION NUMBER: 10/646,390
11 <141> CURRENT FILING DATE: 2003-08-21
13 <150> PRIOR APPLICATION NUMBER: 10/621,911
14 <151> PRIOR FILING DATE: 2003-07-17
16 <150> PRIOR APPLICATION NUMBER: PCT/GB02/00215
17 <151> PRIOR FILING DATE: 2002-01-18
19 <150> PRIOR APPLICATION NUMBER: GB 0101300.2
20 <151> PRIOR FILING DATE: 2001-01-18
22 <160> NUMBER OF SEQ ID NOS: 26
24 <170> SOFTWARE: SeqWin99, version 1.02

Does Not Comply
Corrected Diskette Needed

(Pg. 1, 4-7)

ERRORED SEQUENCES

98 <210> SEQ ID NO: 4
99 <211> LENGTH: 150
100 <212> TYPE: PRT
101 <213> ORGANISM: Mus musculus
103 <400> SEQUENCE: 4
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107 Pro Gln Lys Lys Asp Glu Glu Asp Ala Leu Asp Asp Thr Asp Val Leu
108 20 25 30
110 Gln Pro Glu Thr Leu Val Lys Val Met Lys Lys Leu Thr Leu Asn Pro
111 35 40 45
113 Gly Val Lys Arg Ser Ala Arg Arg Arg Ser Leu Arg Asn Arg Ile Ala
114 50 55 60
116 Ala Val Pro Val Glu Asn Lys Ser Glu Lys Ile Arg Arg Glu Val Gln
117 65 70 75 80
119 Ser Ala Phe Pro Lys Arg Arg Val Arg Thr Leu Leu Ser Val Leu Lys
120 85 90 95
122 Asp Pro Ile Ala Lys Met Arg Arg Leu Val Arg Ile Glu Gln Arg Gln
123 100 105 110
125 Lys Arg Leu Glu Gly Asn Glu Phe Glu Arg Asp Ser Glu Pro Phe Arg
126 115 120 125
128 Cys Leu Cys Thr Phe Cys His Tyr Gln Arg Trp Asp Pro Ser Glu Asn
129 130 135 140
131 Ala Lys Ile Gly Lys Asn
E--> 132 145 150 150

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,390

DATE: 08/20/2004

TIME: 11:05:57

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J646390.raw

256 <210> SEQ ID NO: 7
 257 <211> LENGTH: 7656
 258 <212> TYPE: DNA
 259 <213> ORGANISM: Rattus sp
 261 <400> SEQUENCE: 7
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 263 gatccctcca aaagagtgg acaactcaac tgccagatcc aagatactga aatgggttagc 120
 264 atgctggaga aagaattcaa aagtttaggt gagaatctgg ttgagcagag cacttgcttt 180
 265 tcttccagag gatctgagtt caagtcccg gacctatatac acagtttct gtaactctag 240
 266 ctccagaggg tctgacactt ctgttcaactg tggcacctg cattcacaga caaacataaa 300
 267 gtagttcattt accctttca cagaaaaccc acagcatgtg agggaaatccg ggtctctgcg 360
 268 caatgcccc acagcagaag gggggagctg gagagatggt tcatactgtta gcccatttat 420
 269 tgctctgaa gagaacccag ggtcatccat agcaccata gcagctcaca accatctcca 480
 270 gttccaggag atccaatgcc ctgttgtgac ctcaggtacc aggcatacac aatgaacctg 540
 271 cacacataca aaagttccata gagccatagt taccattgtg agctctgaga accaaatccg 600
 272 tgttctctgc aagagcgaca tgcacgctga gaaccaggca ctttccac tgcctcttga 660
 273 gacaagatct cactatgttag ttcacactgg cttccgactt gecaccatcc tcctgcctct 720
 274 gcctataaaag aatgttagga ttatataaggta aaaaaatcac acctggctgt taaggtttt 780
 275 ctggctgttt ttttttac ccccatgaat gatttgaaa atagttgagc tgtttacatt 840
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,390

DATE: 08/20/2004

TIME: 11:05:57

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J646390.raw

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,390

DATE: 08/20/2004

TIME: 11:05:57

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J646390.raw

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 356 ctattcctcg aggtctggat cagaagctt tgatttcat ttccggattt tcgttcaact 5700
 357 cagataaaa gtccaaatga aagcaatgc catgtataa tgcctagata taactttcc 5760
 358 ttgttcagca gcaaatgcat aagcaataag cttagctggg tgggatctt caaagctact 5820
 359 ctgctcttt tcttcttgc cataggattt agcaacattt tacttcttgc tgcccttta 5880
 360 ttcttgcac catacattt tactttcc ttcgtagctt cttccctttc atcaaaagat 5940
 361 tcttcataag agtgaatattt ggggttagag agatggtca gtggtaata gcactgact 6000
 362 ctcttccaga ggtcctgaat tcaatttctt gcaaccacat ggtagctcat aaccatctgt 6060
 363 aataggatct gatgcctct tttgggtgtgt ctgaagaaga cagcaacagt actcaacata 6120
 364 cataaaataa aaataaatca acatacataa aataaaaata atttttaaaa aaaaaaggtg 6180
 365 aaatttaacc acacaacaga atttatgcctt ggctgtttt agactttgt caaagcaatt 6240
 366 aatctaaatc tcttcacattt agcctcaggat agactcttg gacaatggca aaaagcagcc 6300
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 387 ctgtacatata cgcattgtca gaagaaagggtt tgccagatcc ttcatgttgg acontgtcat 7560
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391 <210> SEQ ID NO: 8
 392 <211> LENGTH: 2161
 393 <212> TYPE: DNA
 394 <213> ORGANISM: Rattus sp
 396 <400> SEQUENCE: 8

397 cgaaggacgg taaggagaga agaggggaga ggatcaggac tgaggggaga tatgcactga 60
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 399 gggggggggc atggaaagaa aggcgggggg gggagataac atgcgggggg agtaagaggg 180
 400 ggggggttaag gagggtacag gtgcacagg tggggggaaag agaggggagg gggggatgg 240
 401 gaaaggtgag ggtgggtggg ggattttcg gcgaaagggg cccggatgtt gattatcg 300
 402 tggaccagaa cggggggagg gccacatttgc ggtggcggtt aacagaaagg aaatctttt 360
 403 aaatcggttgc ggtcgcaagg tgggtggaca ttgagaaaaaa aatcatcaaa gcccctaagg 420
 404 agcattttgtt tcggaggat acgtatggat attttattttt atgggacgg agataaaagaa 480
 405 tacttcttaa qtaatccctt taaaataat qtcqacttgc aqaaatqttt tcatqqqtaa 540

Please
 "N" 10

tgaaaa ctgattgagc 7620
↑
please explain
"N" locations.
= See
error
explanation
on page 6.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/646,390

DATE: 08/20/2004
TIME: 11:05:57

Input Set : A:\PTO.LM.txt
Output Set: N:\CRF4\08202004\J646390.raw

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 408 ggggccaact agccctgggt ctacagcctg gtgtcaacag cagcctccta cctcaaacaa 720
 409 ggtgaaagggt aagggctgat acctgagatc gttgtctgac ctccacacac attgtgctta 780
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 412 ttgcagctag ttttgaggc ttctgcccac caccatggag gagccattag agaaatcgac 960
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 416 acagaagtga aagaatttcg agggaaagtcc aaagcgctt acccaagaga agggtccgca 1200
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 432 ccagcacacaca aacatattaaa aagatagaaa taatgttagt gtttttttttccatc gagcaagagt 2160
 433 c 2161

please explain "N"
locations. See error
explanation on page 6.

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/646,390

DATE: 08/20/2004
TIME: 11:05:58

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J646390.raw

use of n's or Xaa's(NEW RULES): *Error Explanation: ✓*
use of n's and/or Xaa's have been detected in the Sequence Listing.
use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

seq#:7; N Pos. 7471,7554,7608

seq#:8; N Pos. 2115,2142,2143,2146

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/646,390

DATE: 08/20/2004

TIME: 11:05:58

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J646390.raw

L:132 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4 ✓
L:386 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7 ✓
L:387 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7 ✓
L:388 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7 ✓
L:432 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8 ✓